

I. AMENDMENTS TO THE CLAIMS

1. – 19. (Cancelled).

20. (Previously Amended) An isolated polynucleotide which is at least 90% identical to SEQ ID NO:1, wherein the polynucleotide encodes a protein having the activity of a histidine kinase.

21. (Previously Amended) An isolated polynucleotide which is at least 95% identical to SEQ ID NO:1, wherein the polynucleotide encodes a protein having the activity of a histidine kinase.

22. (Previously Added) The isolated polynucleotide of claims 20 or 21, wherein said polynucleotide is native to the species *Corynebacterium glutamicum*.

23. (Allowed) An isolated polynucleotide encoding a protein comprising the amino acid sequence of SEQ ID NO:2.

24. (Allowed) The polynucleotide of claim 23, wherein said polynucleotide is a DNA.

25. (Allowed) The polynucleotide of claim 23, wherein said polynucleotide is a RNA.

26. (Allowed) An isolated polynucleotide comprising SEQ ID NO:1 nucleotides 342 to 1610.

27. (Allowed) An isolated polynucleotide comprising SEQ ID NO:1.

28. (Allowed) An isolated polynucleotide consisting of SEQ ID NO:1 or a fragment thereof encoding a protein having the activity of a histidine kinase.

29. (Allowed) An isolated polynucleotide comprising the full complement of SEQ ID NO:1.

30. (Previously Amended) An isolated polynucleotide which hybridizes under stringent conditions to the full complement of SEQ ID NO: 1, wherein said stringent conditions comprise washing in 5X SSC at 68°C and wherein said polynucleotide encodes a protein having the activity of a histidine kinase.

31. (Cancelled)

32. (Previously Added) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the species *Corynebacterium glutamicum*.

33. (Previously Added) A vector comprising the isolated polynucleotide of claims 20 or 21.

34. (Allowed) A vector comprising the isolated polynucleotide of claims 23, 26, 27, 28 or 29.

35. (Previously Added) A vector comprising the isolated polynucleotide of claim 30.

36. (Allowed) A bacterium comprising the vector of claim 34.

37. (Allowed) The bacterium of claim 36, wherein said bacterium is of the species *Escherichia coli* or of the genus *Corynebacterium*.

38. (Previously Amended) An isolated polynucleotide consisting of at least 30 consecutive nucleotides selected from SEQ ID NO: 1 or the full complement of SEQ ID NO:1.

39. (Cancelled).

40. (Previously Added) A bacterium comprising the vector of claim 33.

41. (Previously Added) A bacterium comprising the vector of claim 35.

42. (Previously Added) The vector pCR2.1luxSint contained in the *E. coli* strain Top10/pCR2.1luxSint (DSM Accession No. 14082).